

10066229\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10066229 on October 15, 2004

Original Classifications

7	370/389
7	370/445
7	370/468
6	370/254
6	370/400
5	370/228
5	370/438
4	370/222
4	370/223
4	370/230
4	370/351
4	370/392
4	370/395.2
4	370/397
4	709/224
3	370/225
3	370/229
3	370/231
3	370/232
3	370/235
3	370/248
3	370/255
3	370/462
3	709/227
3	709/241
3	712/29
2	370/216
2	370/219
2	370/221
2	370/227
2	370/236
2	370/236.1
2	370/236.2
2	370/315
2	370/358
2	370/390
2	370/394
2	370/399
2	370/401
2	370/407
2	370/408
2	370/409
2	370/425

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2 370/436  
2 370/437  
2 370/447  
2 370/449  
2 370/452  
2 372/6  
2 385/24  
2 398/48  
2 398/58  
2 709/220  
2 709/221  
2 709/225  
2 709/226  
2 709/231  
2 713/600  
2 714/4

Cross-Reference Classifications

14 370/397  
10 370/400  
10 370/412  
10 370/462  
10 398/1  
7 370/236  
7 370/351  
7 370/410  
7 370/468  
7 370/471  
6 370/252  
6 370/254  
6 370/349  
6 370/392  
6 370/465  
5 340/825.5  
5 370/230  
5 370/244  
5 370/389  
5 370/403  
5 370/408  
5 370/409  
5 370/469  
5 370/474  
5 709/238  
5 714/4  
4 340/2.4  
4 370/228  
4 370/235  
4 370/237

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4 370/255  
4 370/396  
4 370/452  
4 370/461  
4 370/463  
4 370/466  
4 370/477  
4 379/230  
4 709/239  
4 709/242  
3 340/2.7  
3 340/825.52  
3 370/221  
3 370/231  
3 370/249  
3 370/347  
3 370/395.2  
3 370/447  
3 370/458  
3 370/503  
3 375/133  
3 375/371  
3 398/59  
3 455/445  
3 705/53  
3 709/220  
3 709/223  
3 709/224  
3 713/201  
3 714/712  
2 340/825.01  
2 340/825.02  
2 345/733  
2 345/963  
2 370/218  
2 370/238  
2 370/241  
2 370/242  
2 370/256  
2 370/316  
2 370/337  
2 370/341  
2 370/348  
2 370/357  
2 370/381  
2 370/395.3  
2 370/395.71  
2 370/399

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2 370/401  
2 370/404  
2 370/406  
2 370/407  
2 370/425  
2 370/431  
2 370/443  
2 370/446  
2 370/449  
2 370/455  
2 370/459  
2 370/486  
2 370/493  
2 370/501  
2 370/522  
2 370/535  
2 370/538  
2 372/102  
2 372/108  
2 372/23  
2 372/26  
2 372/31  
2 372/69  
2 372/92  
2 375/240  
2 379/220.01  
2 379/221.04  
2 379/221.08  
2 379/229  
2 398/166  
2 398/168  
2 398/48  
2 398/5  
2 398/61  
2 398/79  
2 398/83  
2 455/12.1  
2 455/13.2  
2 455/428  
2 455/433  
2 455/436  
2 709/229  
2 709/231  
2 709/232  
2 709/235  
2 709/236  
2 709/249  
2 709/250

2 709/252  
2 718/102

Combined Classifications

18 370/397  
16 370/400  
14 370/468  
13 370/462  
12 370/254  
12 370/389  
11 370/351  
11 370/412  
11 398/1  
10 370/392  
9 370/228  
9 370/230  
9 370/236  
7 370/235  
7 370/252  
7 370/255  
7 370/395.2  
7 370/408  
7 370/409  
7 370/410  
7 370/445  
7 370/465  
7 370/471  
7 709/224  
7 714/4  
6 340/825.5  
6 370/231  
6 370/349  
6 370/452  
6 709/238  
5 370/221  
5 370/237  
5 370/244  
5 370/396  
5 370/403  
5 370/438  
5 370/447  
5 370/461  
5 370/466  
5 370/469  
5 370/474  
5 370/477  
5 379/230  
5 709/220

5 709/242  
4 340/2.4  
4 370/222  
4 370/223  
4 370/248  
4 370/347  
4 370/399  
4 370/401  
4 370/407  
4 370/425  
4 370/449  
4 370/458  
4 370/463  
4 398/48  
4 398/59  
4 455/445  
4 709/227  
4 709/231  
4 709/239  
4 709/241  
4 713/201  
4 714/712  
3 340/2.7  
3 340/825.02  
3 340/825.52  
3 370/216  
3 370/218  
3 370/225  
3 370/229  
3 370/232  
3 370/236.2  
3 370/238  
3 370/249  
3 370/256  
3 370/316  
3 370/337  
3 370/390  
3 370/404  
3 370/406  
3 370/486  
3 370/503  
3 375/133  
3 375/371  
3 385/24  
3 398/58  
3 455/13.2  
3 455/433  
3 705/53

3 709/223  
3 709/226  
3 709/236  
3 709/252  
3 712/29  
2 340/825.01  
2 345/733  
2 345/963  
2 370/219  
2 370/227  
2 370/236.1  
2 370/241  
2 370/242  
2 370/245  
2 370/250  
2 370/253  
2 370/315  
2 370/338  
2 370/341  
2 370/346  
2 370/348  
2 370/350  
2 370/357  
2 370/358  
2 370/381  
2 370/394  
2 370/395.3  
2 370/395.4  
2 370/395.41  
2 370/395.53  
2 370/395.71  
2 370/413  
2 370/431  
2 370/436  
2 370/437  
2 370/443  
2 370/446  
2 370/455  
2 370/459  
2 370/493  
2 370/501  
2 370/522  
2 370/535  
2 370/538  
2 372/102  
2 372/108  
2 372/23  
2 372/26

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2 372/31  
2 372/6  
2 372/69  
2 372/92  
2 375/240  
2 379/219  
2 379/220.01  
2 379/221.04  
2 379/221.08  
2 379/229  
2 398/166  
2 398/168  
2 398/2  
2 398/4  
2 398/5  
2 398/50  
2 398/61  
2 398/7  
2 398/79  
2 398/83  
2 398/89  
2 455/12.1  
2 455/428  
2 455/436  
2 705/57  
2 705/8  
2 705/80  
2 707/201  
2 709/203  
2 709/216  
2 709/221  
2 709/225  
2 709/229  
2 709/232  
2 709/235  
2 709/249  
2 709/250  
2 713/600  
2 718/102  
2 725/126



10066229\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10066229 on October 15, 2004

- 18 370/397 (4 OR, 14 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/351 PATHFINDING OR ROUTING
  - 370/389 .Switching a message which includes an address header
  - 370/395.1 ..Message transmitted using fixed length packets (e.g., ATM cells)
  - 370/396 ...Distributed switching
  - 370/397 ....Employing logical addressing for routing (e.g., VP or VC)
- 16 370/400 (6 OR, 10 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/351 PATHFINDING OR ROUTING
  - 370/389 .Switching a message which includes an address header
  - 370/400 ..Having a plurality of nodes performing distributed switching
- 14 370/468 (7 OR, 7 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/464 COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL CHANNELS
  - 370/465 .Adaptive
  - 370/468 ..Assignment of variable bandwidth or time period for transmission or reception
- 13 370/462 (3 OR, 10 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/431 CHANNEL ASSIGNMENT TECHNIQUES
  - 370/462 .Arbitration for access to a channel
- 12 370/254 (6 OR, 6 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/254 NETWORK CONFIGURATION DETERMINATION
- 12 370/389 (7 OR, 5 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/351 PATHFINDING OR ROUTING
  - 370/389 .Switching a message which includes an address header
- 11 370/351 (4 OR, 7 XR)

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	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/351	PATHFINDING OR ROUTING
11	370/412	(1 OR, 10 XR)
	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/351	PATHFINDING OR ROUTING
	370/389	.Switching a message which includes an address header
	370/412	..Queuing arrangement
11	398/1	(1 OR, 10 XR)
	Class 398 :	OPTICAL COMMUNICATIONS
	398/1	FAULT RECOVERY
10	370/392	(4 OR, 6 XR)
	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/351	PATHFINDING OR ROUTING
	370/389	.Switching a message which includes an address header
	370/392	..Processing of address header for routing, pe
r		se
9	370/228	(5 OR, 4 XR)
	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/216	FAULT RECOVERY
	370/225	.Bypass an inoperative channel
	370/228	..Spare channel
9	370/230	(4 OR, 5 XR)
	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/229	DATA FLOW CONGESTION PREVENTION OR CONTROL
	370/230	.Control of data admission to the network
9	370/236	(2 OR, 7 XR)
	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/229	DATA FLOW CONGESTION PREVENTION OR CONTROL
	370/235	.Flow control of data transmission through a network
	370/236	..Including signaling between network elements
7	370/235	(3 OR, 4 XR)
	Class 370 :	MULTIPLEX COMMUNICATIONS
	370/229	DATA FLOW CONGESTION PREVENTION OR CONTROL
	370/235	.Flow control of data transmission through a network

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7 370/252 (1 OR, 6 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

370/252 .Determination of communication parameters

7 370/255 (3 OR, 4 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/254 NETWORK CONFIGURATION DETERMINATION  
 370/255 .Using a particular learning algorithm or  
 technique

7 370/395.2 (4 OR, 3 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address  
 header  
 370/395.1 ..Message transmitted using fixed length  
 packets (e.g., ATM cells)  
 370/395.2 ...Connection set-up/disconnect (e.g.,  
 Connection Admission Control)

7 370/408 (2 OR, 5 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address  
 header  
 370/400 ..Having a plurality of nodes performing  
 distributed switching  
 370/408 ...Nodes interconnected in hierarchy to form a  
 tree

7 370/409 (2 OR, 5 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address  
 header  
 370/400 ..Having a plurality of nodes performing  
 distributed switching  
 370/409 ...Employing logical addressing for routing  
 (e.g., VP or VC)

7 370/410 (0 OR, 7 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address  
 header

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370/400      ..Having a plurality of nodes performing  
distributed switching

370/410      ...Having a signaling feature

7 370/445      (7 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/431      CHANNEL ASSIGNMENT TECHNIQUES  
370/445      .Carrier sense multiple access (CSMA)

7 370/465      (1 OR, 6 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/464      COMMUNICATION TECHNIQUES FOR INFORMATION  
CARRIED IN PLURAL CHANNELS  
370/465      .Adaptive

7 370/471      (0 OR, 7 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/464      COMMUNICATION TECHNIQUES FOR INFORMATION  
CARRIED IN PLURAL CHANNELS  
370/465      .Adaptive  
370/470      ..Frame length  
370/471      ...Message having an address header

7 709/224      (4 OR, 3 XR)  
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200      MULTICOMPUTER DATA TRANSFERRING  
709/223      .Computer network managing  
709/224      ..Computer network monitoring

7 714/4      (2 OR, 5 XR)  
Class 714 : ERROR DETECTION/CORRECTION AND FAULT  
DETECTION/RECOVERY  
714/100      DATA PROCESSING SYSTEM ERROR OR FAULT HANDLING  
  
714/1      .Reliability and availability  
714/2      ..Fault recovery  
714/3      ...By masking or reconfiguration  
714/4      ....Of network

6 340/825.5      (1 OR, 5 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825      SELECTIVE  
340/825.5      .Lockout or priority (programmed or variable)

6 370/231      (3 OR, 3 XR)

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Class 370 : MULTIPLEX COMMUNICATIONS
370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL
370/230 .Control of data admission to the network
370/231 ..End-to-end flow control

6 370/349 (0 OR, 6 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/310 COMMUNICATION OVER FREE SPACE
370/345 .Combining or distributing information via tim
e
                                channels
370/349 ..Using messages having an address field as
                                header

6 370/452 (2 OR, 4 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/431 CHANNEL ASSIGNMENT TECHNIQUES
370/449 .Polling
370/450 ..Passing a signal identifying the idle or bus
y
                                state of a channel (e.g., token passing)
370/451 ...On bus
370/452 ....On ring or loop

6 709/238 (1 OR, 5 XR)
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
                                SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO
RDINATING
709/200 MULTICOMPUTER DATA TRANSFERRING
709/238 .Computer-to-computer data routing

5 370/221 (2 OR, 3 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/216 FAULT RECOVERY
370/221 .Bypass an inoperative station

5 370/237 (1 OR, 4 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL
370/235 .Flow control of data transmission through a
                                network
370/237 ..Congestion based rerouting

5 370/244 (0 OR, 5 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION
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370/242 .Fault detection  
370/244 ..Of a switching system

5 370/396 (1 OR, 4 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/389 .Switching a message which includes an address  
header  
370/395.1 ..Message transmitted using fixed length  
packets (e.g., ATM cells)  
370/396 ...Distributed switching

5 370/403 (0 OR, 5 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/389 .Switching a message which includes an address  
header  
370/400 ..Having a plurality of nodes performing  
distributed switching  
370/401 ...Bridge or gateway between networks  
370/402 ....Bridge between bus systems  
370/403 .....At least one bus is a ring network

5 370/438 (5 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/431 CHANNEL ASSIGNMENT TECHNIQUES  
370/438 .Using a separate control line or bus for  
access control

5 370/447 (2 OR, 3 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/431 CHANNEL ASSIGNMENT TECHNIQUES  
370/445 .Carrier sense multiple access (CSMA)  
370/447 ..Arbitration for access between contending  
stations

5 370/461 (1 OR, 4 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/431 CHANNEL ASSIGNMENT TECHNIQUES  
370/458 .Using time slots  
370/461 ..Arbitration for access between contending  
stations

5 370/466 (1 OR, 4 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/464 COMMUNICATION TECHNIQUES FOR INFORMATION  
CARRIED IN PLURAL CHANNELS  
370/465 .Adaptive

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370/466 ..Converting between protocols

5 370/469 (0 OR, 5 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/464 COMMUNICATION TECHNIQUES FOR INFORMATION  
 CARRIED IN PLURAL CHANNELS  
 370/465 .Adaptive  
 370/469 ..Processing multiple layer protocols

5 370/474 (0 OR, 5 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having  
 multiple packets  
 370/474 .Assembly or disassembly of messages having  
 address headers

5 370/477 (1 OR, 4 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having  
 multiple packets  
 370/477 .Transmission bandwidth conservation

5 379/230 (1 OR, 4 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION  
 379/229 .Interexchange signalling  
 379/230 ..Signalling path distinct from trunk (e.g.,  
 CCIS)

5 709/220 (2 OR, 3 XR)  
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO  
 RDINATING  
 709/200 MULTICOMPUTER DATA TRANSFERRING  
 709/220 .Network computer configuring

5 709/242 (1 OR, 4 XR)  
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO  
 RDINATING  
 709/200 MULTICOMPUTER DATA TRANSFERRING  
 709/238 .Computer-to-computer data routing  
 709/242 ..Routing data updating

4 340/2.4 (0 OR, 4 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/2.1 .Path selection

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340/2.4 ..Code or pulse responsive

4 370/222 (4 OR, 0 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/216 FAULT RECOVERY  
 370/221 .Bypass an inoperative station  
 370/222 ..In a ring or loop network

4 370/223 (4 OR, 0 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/216 FAULT RECOVERY  
 370/221 .Bypass an inoperative station  
 370/222 ..In a ring or loop network  
 370/223 ...Using a secondary ring or loop

4 370/248 (3 OR, 1 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

370/248 .Path check

4 370/347 (1 OR, 3 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/345 .Combining or distributing information via tim

channels  
 370/347 ..Multiple access (e.g., TDMA)

4 370/399 (2 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address  
 header  
 370/395.1 ..Message transmitted using fixed length  
 packets (e.g., ATM cells)  
 370/398 ...Centralized switching  
 370/399 ....Employing logical addressing for routing  
 (e.g., VP or VC)

4 370/401 (2 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address  
 header  
 370/400 ..Having a plurality of nodes performing  
 distributed switching



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370/401 ...Bridge or gateway between networks

4 370/407 (2 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/389 .Switching a message which includes an address header

370/400 ..Having a plurality of nodes performing distributed switching

370/407 ...Interconnected star couplers

4 370/425 (2 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/389 .Switching a message which includes an address header

370/422 ..Centralized switching

370/425 ...Star configuration

4 370/449 (2 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/431 CHANNEL ASSIGNMENT TECHNIQUES

370/449 .Polling

4 370/458 (1 OR, 3 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/431 CHANNEL ASSIGNMENT TECHNIQUES

370/458 .Using time slots

4 370/463 (0 OR, 4 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/431 CHANNEL ASSIGNMENT TECHNIQUES

370/463 .Details of circuit or interface for connectin

g

user to the network

4 398/48 (2 OR, 2 XR)

Class 398 : OPTICAL COMMUNICATIONS

398/43 MULTIPLEX

398/45 .Optical switching

398/48 ..Wavelength

4 398/59 (1 OR, 3 XR)

Class 398 : OPTICAL COMMUNICATIONS

398/43 MULTIPLEX

398/58 .Optical local area network (LAN)

398/59 ..Ring or loop

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4 455/445 (1 OR, 3 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/403 RADIOTELEPHONE SYSTEM  
 455/422.1 .Zoned or cellular telephone system  
 455/445 ..Call routing (e.g., to prevent backhaul,  
 routing efficiency, least cost, or alternat  
 e routing)

4 709/227 (3 OR, 1 XR)  
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO  
 RDINATING  
 709/200 MULTICOMPUTER DATA TRANSFERRING  
 709/227 .Computer-to-computer session/connection  
 establishing

4 709/231 (2 OR, 2 XR)  
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO  
 RDINATING  
 709/200 MULTICOMPUTER DATA TRANSFERRING  
 709/230 .Computer-to-computer protocol implementing  
 709/231 ..Computer-to-computer data streaming

4 709/239 (0 OR, 4 XR)  
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO  
 RDINATING  
 709/200 MULTICOMPUTER DATA TRANSFERRING  
 709/238 .Computer-to-computer data routing  
 709/239 ..Alternate path routing

4 709/241 (3 OR, 1 XR)  
 Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO  
 RDINATING  
 709/200 MULTICOMPUTER DATA TRANSFERRING  
 709/238 .Computer-to-computer data routing  
 709/241 ..Least weight routing

4 713/201 (1 OR, 3 XR)  
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: SUPPORT  
 713/200 SECURITY  
 713/201 .Computer network

4 714/712 (1 OR, 3 XR)  
 Class 714 : ERROR DETECTION/CORRECTION AND FAULT

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DETECTION/RECOVERY

714/699 PULSE OR DATA ERROR HANDLING  
714/712 .Transmission facility testing

3 340/2.7 (0 OR, 3 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/2.1 .Path selection  
340/2.7 ..Condition of data channel

3 340/825.02 (1 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.02 .Tree or cascade

3 340/825.52 (0 OR, 3 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.52 .Addressing

3 370/216 (2 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/216 FAULT RECOVERY

3 370/218 (1 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/216 FAULT RECOVERY  
370/217 .Bypass an inoperative switch or inoperative  
element of a switching system  
370/218 ..Packet switching system or element

3 370/225 (3 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/216 FAULT RECOVERY  
370/225 .Bypass an inoperative channel

3 370/229 (3 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL

3 370/232 (3 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL  
370/230 .Control of data admission to the network  
370/232 ..Based on data flow rate measurement

3 370/236.2 (2 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

10066229 CLSTITLES

370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL

370/235 .Flow control of data transmission through a network

370/236 ..Including signaling between network elements

370/236.2 ...Using OAM (Operation, Administration and Maintenance) cells

3 370/238 (1 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL

370/235 .Flow control of data transmission through a network

370/238 ..Least cost or minimum delay routing

3 370/249 (0 OR, 3 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

)

370/249 .Loopback

3 370/256 (1 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/254 NETWORK CONFIGURATION DETERMINATION

370/255 .Using a particular learning algorithm or technique

370/256 ..Spanning tree

3 370/316 (1 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/315 .Repeater

370/316 ..Airborne or space satellite repeater

3 370/337 (1 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/328 .Having a plurality of contiguous regions served by respective fixed stations

370/329 ..Channel assignment

370/336 ...Combining or distributing information via time channels

370/337 ....Multiple access (e.g., TDMA)

3 370/390 (2 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

10066229\_CLSTITLES

370/389 .Switching a message which includes an address header

370/390 ..Replicate messages for multiple destination distribution

3 370/404 (1 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address header  
 370/400 ..Having a plurality of nodes performing distributed switching  
 370/401 ...Bridge or gateway between networks  
 370/402 ....Bridge between bus systems  
 370/403 .....At least one bus is a ring network  
 370/404 .....Ring or loop forms backbone for interconnecting other networks

3 370/406 (1 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/351 PATHFINDING OR ROUTING  
 370/389 .Switching a message which includes an address header  
 370/400 ..Having a plurality of nodes performing distributed switching  
 370/406 ...Plurality of rings or loops to form a mesh network

3 370/486 (1 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having multiple packets  
 370/480 .Combining or distributing information via frequency channels  
 370/485 ..Subscriber carrier  
 370/486 ...Program distribution

3 370/503 (0 OR, 3 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having multiple packets  
 370/498 .Combining or distributing information via time channels  
 370/503 ..Synchronizing

3 375/133 (0 OR, 3 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS

10066229 CLSTITLES

375/130 SPREAD SPECTRUM

375/132 .Frequency hopping

375/133 ..End-to-end transmission system

3 375/371 (0 OR, 3 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/354 SYNCHRONIZERS

375/371 .Phase displacement, slip or jitter correction

3 385/24 (2 OR, 1 XR)

Class 385 : OPTICAL WAVEGUIDES

385/15 WITH OPTICAL COUPLER

385/24 .Plural (e.g., data bus)

3 398/58 (2 OR, 1 XR)

Class 398 : OPTICAL COMMUNICATIONS

398/43 MULTIPLEX

398/58 .Optical local area network (LAN)

3 455/13.2 (1 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
RETRANSMISSION OF SAME INFORMATION)

455/11.1 .Portable or mobile repeater

455/12.1 ..Space satellite

455/13.2 ...With synchronizing of satellites or system

3 455/433 (1 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/432.1 ..Roaming

455/433 ...Home location registration (HLR) or visitor  
location registration (VLR) detail

3 705/53 (0 OR, 3 XR)

Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS  
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMIN

ATION

705/50 BUSINESS PROCESSING USING CRYPTOGRAPHY

705/51 .Usage protection of distributed data files

705/52 ..Usage or charge determination

705/53 ...Including third party for collecting or  
distributing payment (e.g., clearinghouse)

3 709/223 (0 OR, 3 XR)

10066229 CLSTITLES

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/223 .Computer network managing

3 709/226 (2 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/223 .Computer network managing

709/226 ..Network resource allocating

3 709/236 (1 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/230 .Computer-to-computer protocol implementing

709/236 ..Computer-to-computer data framing

3 709/252 (1 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/252 .Star or tree computer networking

3 712/29 (3 OR, 0 XR)

Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: PROCESSING ARCHITECTURES AND INS

TRUCTION

PROCESSING

712/1 PROCESSING ARCHITECTURE

712/28 .Distributed processing system

712/29 ..Interface

2 340/825.01 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/825 SELECTIVE

340/825.01 .Spare channel

2 345/733 (0 OR, 2 XR)

Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR  
INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

10066229 CLSTITLES

345/700 OPERATOR INTERFACE (E.G., GRAPHICAL USER  
INTERFACE)

345/733 .For plural users or sites (e.g., network)

2 345/963 (0 OR, 2 XR)  
Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR  
INTERFACE PROCESSING, AND SELECTIVE VISUAL  
DISPLAY  
SYSTEMS

345/961 OPERATOR INTERFACE WITH VISUAL STRUCTURE OR  
FUNCTION DICTATED BY INTENDED USE

345/963 .Calendar or scheduling

2 370/219 (2 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

370/216 FAULT RECOVERY

370/217 .Bypass an inoperative switch or inoperative  
element of a switching system

370/218 ..Packet switching system or element

370/219 ...Standby switch

2 370/227 (2 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

370/216 FAULT RECOVERY

370/225 .Bypass an inoperative channel

370/226 ..In a repeater system

370/227 ...Using a spare channel

2 370/236.1 (2 OR, 0 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL

370/235 .Flow control of data transmission through a  
network

370/236 ..Including signaling between network elements

370/236.1 ...Using RM (Resource Management) cells

2 370/241 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

)

2 370/242 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

)



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370/242 .Fault detection

2 370/245 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

)

370/242 .Fault detection

370/245 ..Of a local area network

2 370/250 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

)

370/250 .Of a switching system

2 370/253 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION

)

370/252 .Determination of communication parameters

370/253 ..Measurement of flow rate of messages having  
an address header

2 370/315 (2 OR, 0 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/315 .Repeater

2 370/338 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/328 .Having a plurality of contiguous regions  
served by respective fixed stations

370/338 ..Contiguous regions interconnected by a local  
area network

2 370/341 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/340 .Using trunking

370/341 ..Channel assignment

2 370/346 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

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                                10066229_CLSTITLES
370/345      .Combining or distributing information via tim
e
                                channels
370/346      ..Polling

2  370/348      (0 OR, 2 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
370/310      COMMUNICATION OVER FREE SPACE
370/345      .Combining or distributing information via tim
e
                                channels
370/347      ..Multiple access (e.g., TDMA)
370/348      ...Channel reservation scheme

2  370/350      (1 OR, 1 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
370/310      COMMUNICATION OVER FREE SPACE
370/345      .Combining or distributing information via tim
e
                                channels
370/350      ..Synchronization

2  370/357      (0 OR, 2 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
370/351      PATHFINDING OR ROUTING
370/357      .Through a circuit switch

2  370/358      (2 OR, 0 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
370/351      PATHFINDING OR ROUTING
370/357      .Through a circuit switch
370/358      ..Switching input signals having different
                aggregate bit rates

2  370/381      (0 OR, 2 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
370/351      PATHFINDING OR ROUTING
370/357      .Through a circuit switch
370/360      ..Switching control
370/381      ...Having details of control storage
                arrangement

2  370/394      (2 OR, 0 XR)
    Class 370 : MULTIPLEX COMMUNICATIONS
370/351      PATHFINDING OR ROUTING
370/389      .Switching a message which includes an address
                header
370/394      ..Sequencing or resequencing of packets to

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10066229\_CLSTITLES  
insure proper output sequence order

2 370/395.3 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/389 .Switching a message which includes an address  
header  
370/395.1 ..Message transmitted using fixed length  
packets (e.g., ATM cells)  
370/395.3 ...Connection identifier assignment

2 370/395.4 (1 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/389 .Switching a message which includes an address  
header  
370/395.1 ..Message transmitted using fixed length  
packets (e.g., ATM cells)  
370/395.4 ...Assigning period of time for information to  
be transmitted (e.g., scheduling)

2 370/395.41 (1 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/389 .Switching a message which includes an address  
header  
370/395.1 ..Message transmitted using fixed length  
packets (e.g., ATM cells)  
370/395.4 ...Assigning period of time for information to  
be transmitted (e.g., scheduling)  
370/395.41 ....Based on bandwidth allocation (e.g.,  
Weighted Round Robin)

2 370/395.53 (1 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/389 .Switching a message which includes an address  
header  
370/395.1 ..Message transmitted using fixed length  
packets (e.g., ATM cells)  
370/395.5 ...Multiprotocol network  
370/395.53 ....Emulated LAN (LANE/ELAN/VLAN, e.g.,  
Ethernet or token ring legacy LAN over a si

ngle ATM

network/LAN)

2 370/395.71 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

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370/351            PATHFINDING OR ROUTING

370/389            .Switching a message which includes an address  
                         header

370/395.1          ..Message transmitted using fixed length  
                         packets (e.g., ATM cells)

370/395.7          ...Having detail of switch memory  
                         reading/writing

370/395.71        ....Having input or output storage or both

2   370/413            (1 OR, 1 XR)

     Class   370 :   MULTIPLEX COMMUNICATIONS

     370/351            PATHFINDING OR ROUTING

     370/389            .Switching a message which includes an address  
                         header

     370/412            ..Queuing arrangement

     370/413            ...Having both input and output queuing

2   370/431            (0 OR, 2 XR)

     Class   370 :   MULTIPLEX COMMUNICATIONS

     370/431            CHANNEL ASSIGNMENT TECHNIQUES

2   370/436            (2 OR, 0 XR)

     Class   370 :   MULTIPLEX COMMUNICATIONS

     370/431            CHANNEL ASSIGNMENT TECHNIQUES

     370/436            .Combined time and frequency assignment

2   370/437            (2 OR, 0 XR)

     Class   370 :   MULTIPLEX COMMUNICATIONS

     370/431            CHANNEL ASSIGNMENT TECHNIQUES

     370/437            .Adaptive selection of channel assignment  
                         technique

2   370/443            (0 OR, 2 XR)

     Class   370 :   MULTIPLEX COMMUNICATIONS

     370/431            CHANNEL ASSIGNMENT TECHNIQUES

     370/442            .Combining or distributing information via tim  
e

                         channels using multiple access technique (

e.g., TDMA)

     370/443            ..Using channel reservation

2   370/446            (0 OR, 2 XR)

     Class   370 :   MULTIPLEX COMMUNICATIONS

     370/431            CHANNEL ASSIGNMENT TECHNIQUES

     370/445            .Carrier sense multiple access (CSMA)

     370/446            ..Using a star coupler

2   370/455            (0 OR, 2 XR)

10066229\_CLSTITLES  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/431 CHANNEL ASSIGNMENT TECHNIQUES  
 370/449 .Polling  
 370/450 ..Passing a signal identifying the idle or bus

y  
 state of a channel (e.g., token passing)

370/451 ...On bus  
 370/452 ....On ring or loop  
 370/455 .....Including priority resolution

2 370/459 (0 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/431 CHANNEL ASSIGNMENT TECHNIQUES  
 370/458 .Using time slots  
 370/459 ..Having indication of idle or busy state of  
 time slot

2 370/493 (0 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having  
 multiple packets  
 370/480 .Combining or distributing information via  
 frequency channels  
 370/493 ..Combined voice and data transmission

2 370/501 (0 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having  
 multiple packets  
 370/498 .Combining or distributing information via tim  
 e  
 channels  
 370/501 ..Repeater

2 370/522 (0 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having  
 multiple packets  
 370/498 .Combining or distributing information via tim  
 e  
 channels  
 370/522 ..Signaling (ancillary to main information)

2 370/535 (0 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/473 ..Transmission of a single message having  
 multiple packets

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e      370/498      .Combining or distributing information via tim

channels

370/535      ..Multiplexing combined with demultiplexing

2   370/538      (0 OR, 2 XR)

Class   370 :   MULTIPLEX COMMUNICATIONS

370/473      ..Transmission of a single message having multiple packets

370/498      .Combining or distributing information via tim

e      channels

370/537      ..Multiplexing plural input channels to a common output channel

370/538      ...Plural input channels of different rates to a single common rate output channel

2   372/102      (0 OR, 2 XR)

Class   372 :   COHERENT LIGHT GENERATORS

372/92      PARTICULAR RESONANT CAVITY

372/98      .Specified cavity component

372/102      ..Grating

2   372/108      (0 OR, 2 XR)

Class   372 :   COHERENT LIGHT GENERATORS

372/92      PARTICULAR RESONANT CAVITY

372/108      .Specified output coupling device

2   372/23      (0 OR, 2 XR)

Class   372 :   COHERENT LIGHT GENERATORS

372/9      PARTICULAR BEAM CONTROL DEVICE

372/23      .Producing plural wavelength output.

2   372/26      (0 OR, 2 XR)

Class   372 :   COHERENT LIGHT GENERATORS

372/9      PARTICULAR BEAM CONTROL DEVICE

372/26      .Modulation

2   372/31      (0 OR, 2 XR)

Class   372 :   COHERENT LIGHT GENERATORS

372/9      PARTICULAR BEAM CONTROL DEVICE

372/29.02      .Optical output stabilization

372/31      ..Amplitude

2   372/6      (2 OR, 0 XR)

Class   372 :   COHERENT LIGHT GENERATORS

372/6      OPTICAL FIBER LASER

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- 2 372/69 (0 OR, 2 XR)  
 Class 372 : COHERENT LIGHT GENERATORS  
 372/69 PARTICULAR PUMPING MEANS
- 2 372/92 (0 OR, 2 XR)  
 Class 372 : COHERENT LIGHT GENERATORS  
 372/92 PARTICULAR RESONANT CAVITY
- 2 375/240 (0 OR, 2 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/240 BANDWIDTH REDUCTION OR EXPANSION
- 2 379/219 (1 OR, 1 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION
- 2 379/220.01 (0 OR, 2 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION  
 379/220.01 .With interexchange network routing
- 2 379/221.04 (0 OR, 2 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION  
 379/220.01 .With interexchange network routing  
 379/221.01 ..Alternate routing  
 379/221.03 ...Failure (e.g., disaster, overload, blockage)
- 379/221.04 ....Restoration (e.g., backup, recovery)
- 2 379/221.08 (0 OR, 2 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION  
 379/220.01 .With interexchange network routing  
 379/221.08 ..Advanced intelligent network (AIN)
- 2 379/229 (0 OR, 2 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/219 PLURAL EXCHANGE NETWORK OR INTERCONNECTION  
 379/229 .Interexchange signalling
- 2 398/166 (0 OR, 2 XR)  
 Class 398 : OPTICAL COMMUNICATIONS  
 398/140 TRANSMITTER AND RECEIVER SYSTEM  
 398/165 .Plural stations  
 398/166 ..Address directing connections

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- 2 398/168 (0 OR, 2 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/140 TRANSMITTER AND RECEIVER SYSTEM
  - 398/168 .Passive system
- 2 398/2 (1 OR, 1 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/1 FAULT RECOVERY
  - 398/2 .Bypass inoperative element
- 2 398/4 (1 OR, 1 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/1 FAULT RECOVERY
  - 398/2 .Bypass inoperative element
  - 398/3 ..In a ring or loop
  - 398/4 ...Using a secondary ring or loop
- 2 398/5 (0 OR, 2 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/1 FAULT RECOVERY
  - 398/2 .Bypass inoperative element
  - 398/5 ..Spare channel or standby optical fiber
- 2 398/50 (1 OR, 1 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/43 MULTIPLEX
  - 398/45 .Optical switching
  - 398/48 ..Wavelength
  - 398/50 ...Crossconnect
- 2 398/61 (0 OR, 2 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/43 MULTIPLEX
  - 398/58 .Optical local area network (LAN)
  - 398/61 ..Active star
- 2 398/7 (1 OR, 1 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/1 FAULT RECOVERY
  - 398/7 .WDM
- 2 398/79 (0 OR, 2 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/43 MULTIPLEX
  - 398/79 .Wavelength division or frequency division  
(e.g., Raman, Brillouin, etc.)
- 2 398/83 (0 OR, 2 XR)



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Class 398 : OPTICAL COMMUNICATIONS

398/43 MULTIPLEX

398/79 .Wavelength division or frequency division  
(e.g., Raman, Brillouin, etc.)

398/82 ..By optical coupling

398/83 ...Add or drop

2 398/89 (1 OR, 1 XR)

Class 398 : OPTICAL COMMUNICATIONS

398/43 MULTIPLEX

398/79 .Wavelength division or frequency division  
(e.g., Raman, Brillouin, etc.)

398/89 ..Multiple Access (e.g., WDMA)

2 455/12.1 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
RETRANSMISSION OF SAME INFORMATION)

455/11.1 .Portable or mobile repeater

455/12.1 ..Space satellite

2 455/428 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/427 ..Space satellite

455/428 ...Switching or routing

2 455/436 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/436 ..Handoff

2 705/57 (1 OR, 1 XR)

Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS  
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMIN  
ATION

705/50 BUSINESS PROCESSING USING CRYPTOGRAPHY

705/51 .Usage protection of distributed data files

705/57 ..Copy protection or prevention

2 705/8 (1 OR, 1 XR)

Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS  
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMIN  
ATION

705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS  
PRACTICE OR MANAGEMENT ARRANGEMENT

10066229\_CLSTITLES

705/7 .Operations research

705/8 ..Allocating resources or scheduling for an administrative function

2 705/80 (1 OR, 1 XR)

Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION

705/80 ELECTRONIC NEGOTIATION

2 707/201 (1 OR, 1 XR)

Class 707 : DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES

707/200 FILE OR DATABASE MAINTENANCE

707/201 .Coherency (e.g., same view to multiple users)

2 709/203 (1 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/201 .Distributed data processing

709/203 ..Client/server

2 709/216 (1 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/213 .Multicomputer data transferring via shared memory

709/216 ..Accessing another computer's memory

2 709/221 (2 OR, 0 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/220 .Network computer configuring

709/221 ..Reconfiguring

2 709/225 (2 OR, 0 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/223 .Computer network managing

## 10066229\_CLSTITLES

709/225 ..Computer network access regulating

2 709/229 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/227 .Computer-to-computer session/connection  
establishing

709/229 ..Network resources access controlling

2 709/232 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/230 .Computer-to-computer protocol implementing

709/232 ..Computer-to-computer data transfer regulatin

g

2 709/235 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/230 .Computer-to-computer protocol implementing

709/232 ..Computer-to-computer data transfer regulatin

g

709/235 ...Congestion avoiding

2 709/249 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/249 .Multiple network interconnecting

2 709/250 (0 OR, 2 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/250 .Network-to-computer interfacing

2 713/600 (2 OR, 0 XR)

Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING

10066229\_CLSTITLES

SYSTEMS: SUPPORT

713/600

CLOCK CONTROL OF DATA PROCESSING SYSTEM,  
COMPONENT, OR DATA TRANSMISSION

2 718/102 (0 OR, 2 XR)

Class 718 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: VIRTUAL MACHINE TASK OR PROCESS MAN

AGEMENT OR TASK

MANAGEMENT/CONTROL

718/100 TASK MANAGEMENT OR CONTROL

718/102 .Process scheduling

2 725/126 (1 OR, 1 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS

725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM  
COMMUNICATION

725/118 .Transmission network

725/126 ..Detail of use of two-way spectrum

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PLUS Search Results for S/N 10066229, Searched October 15, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6791997	6111885	6253193	5978364	6657969	5361261
4883245	6111886	6363488	6044079	6785725	5373504
4912656	5940399	6389402	6046978	4290142	5384776
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5418779	5341401	4361886	4592048	4316283	5408464
5553058	5627766	5276677	4799215	4317196	5412652
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5524077	5204856	5854754	5734652	4814980	5526353
5537679	5253248	5559626	5745476	4858232	5530806
5781537	5283783	5808885	5838959	4866704	5534937
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5920703	5444701	5890995	5864614	4890282	5544169
6078952	5774669	5960174	5870212	4893307	5557608
6081797	5940396	5963450	5875179	4894822	5570361
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6351471	6192043	5287535	5986783	5229993	5583990
6351474	6370146	5870384	6046833	5233600	5590284
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## 10066229 LIST

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5544324	5822543	5825779	6219706	5319641	5678178
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5936960	6111888	5898667	6330250	5343512	5699354
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